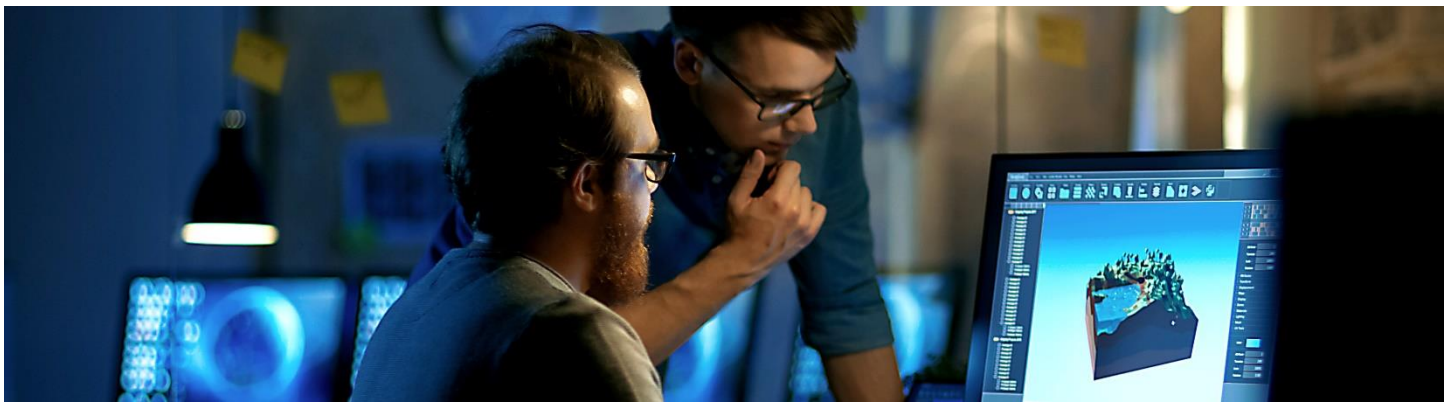
MICRON® 2200 PCIe NVMe Client SSD

PCIe NVMe M.2



Blazing Meets Amazing: NVMe™ and PCIe® Speed for Client Computing

The Micron® 2200 series of NVMe™ SSDs is revolutionizing and accelerating computing on the go. The Micron 2200 SSD is the first fully Micron-designed client storage device — from the wafer to the controller and firmware, through production and test. It represents a new path for Micron, providing consistency, simplicity and stability for tighter quality control and faster qualification and time to market.

PCIe® delivers the benefits of flash, with high performance, low latency and scalability. The Micron 2200 SSD is our first client drive with flash-optimized NVMe protocols, delivering up to 1TB of lightning-quick NVMe flash storage for intense computing workloads on laptops, mobile workstations, tablets and other mobile devices. The Micron 2200 M.2 is built with our 3D triple-level cell (TLC) 64-layer NAND technology, providing cost efficiencies and longer battery life.

The Micron 2200 SSD was designed from the ground up for nonvolatile storage, with four lanes of data transmission for expanded throughput. It enables performance with enough headroom, bandwidth and storage space to handle demanding client workloads.

KEY BENEFITS

We Know SSDs Like the Back of Our NAND

Built on our latest 3D TLC NAND technology and client SSD architecture, the Micron 2200 delivers more data storage in the same footprint. The state-of-the-art, stackable 64-tier 3D NAND die allows up to 1TB of storage in an M.2 form factor for better cost control.

Get NVMe for Client Systems

NVMe, the protocol on PCIe purpose-built for flash storage, reduces latency and streamlines the storage command set. Given the ease of OS integration and the standard PCIe sockets on Intel platforms, NVMe drivers have become standard in Windows 10 operating systems, making PCIe even easier to adopt at a lower price and making NVMe speed a more cost-efficient advantage.

Go Mobile for Longer

The Micron 2200 offers power efficiency enhancements for longer battery life thanks to device sleep (DEVSLP) low-power modes. Consuming less than 5mW in low-power mode, the Micron 2200 uses significantly less power than HDDs — and over 20X less in active mode. And longer battery life means more mobile employee uptime.

Keep It Cool

Increased reliability in space-constrained designs with our adaptive thermal monitoring feature limits heat generated by the SSD in the small footprint M.2 form factor.

Depend on Our Endurance

An optimized 3D TLC NAND component and SSD architecture enables the Micron 2200 to deliver strong performance and solid endurance

Reduce Time on Your Quals

The Micron 2200 establishes a new Micron client platform; thus, successive solutions on this platform will require fewer qualification processes for OEM customers, saving time and money.

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ADDITIONAL BENEFITS

Crunches, Saves, Deploys and Protects

Self-encrypting drive (SED) technology offers reliable encryption for valuable mobile data-at-rest without performance degradation. All encryption/ decryption utilizes an AES-256-bit XTS hardware engine that complies with the TCG™ Opal 2.0 standards with no impact on performance.

Room to Grow

Moving from HDD to SSD for your client storage provides your first performance boost. The Micron 2200 SSD also brings bandwidth, storage space and headroom to your client platform. Max out your potential, not your storage. With the Micron 2200, you get more infrastructure, TCO and flexibility to expand to meet the demanding client workloads you have today, with room to position you for what may come.



Micron 2200 M.2 SSD

Micron 2200 SSD OEMs, System Integrators and Value-Added Resellers			
Category[1]	Corporate PCs and Notebooks		
Model	**Micron 2200 SSD**		
Form Factor	**M.2 (22x80) S3**		
Interface	PCIe x4 Gen3, NVMe 1.2.1		
Capacities	256GB	512GB	1TB
Seq Read (MB/s)[2]	Up to 3,000		
Seq Write (MB/s)[2]	Up to 1,600		
Random Read (IOPS)[3]	Up to 240K		
Random Write (IOPS)[3]	Up to 210K		
Endurance (TBW)	75TB	150TB	300TB
MTTF (Million Hours)	2		
DEVSLP (mW)	<5		
Idle Power (mW)	<300 Active Avg: <6,000		
Advanced Features[4]	AES 256-bit encryption Power-loss protection (data at rest) Host-controlled thermal management Dynamic write acceleration RAIN S.M.A.R.T. Device self-test Storage Executive management tool		

1. Capacities: Unformatted. 1GB = 1 billion bytes. Formatted capacity is less.
2. Sequential Read/Write: 128KB transfer size, fresh-out-of-box (FOB).
3. Random Read/Write: 4KB transfer size, fresh-out-of-box (FOB).
4. Advanced Features: No hardware, software or system can provide absolute security under all conditions. Micron assumes no liability for lost, stolen or corrupted data arising from the use of any Micron products, including those products that incorporate any of the mentioned security features

Part Numbers		
Standard Part SED	**Capacity**	**Form Factor**
MTFDHBA256TCK-1AS15ABYY	256GB	M.2
MTFDHBA512TCK-1AS15ABYY	512GB	M.2
MTFDHBA1T0TCK-1AT15ABYY	1TB	M.2

Standard Part Non-SED	**Capacity**	**Form Factor**
MTFDHBA256TCK-1AS1AABYY	256GB	M.2
MTFDHBA512TCK-1AS1AABYY	512GB	M.2
MTFDHBA1T0TCK-1AT1AABYY	1TB	M.2

SED = Self-Encrypting Drive

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